

FIG. 1

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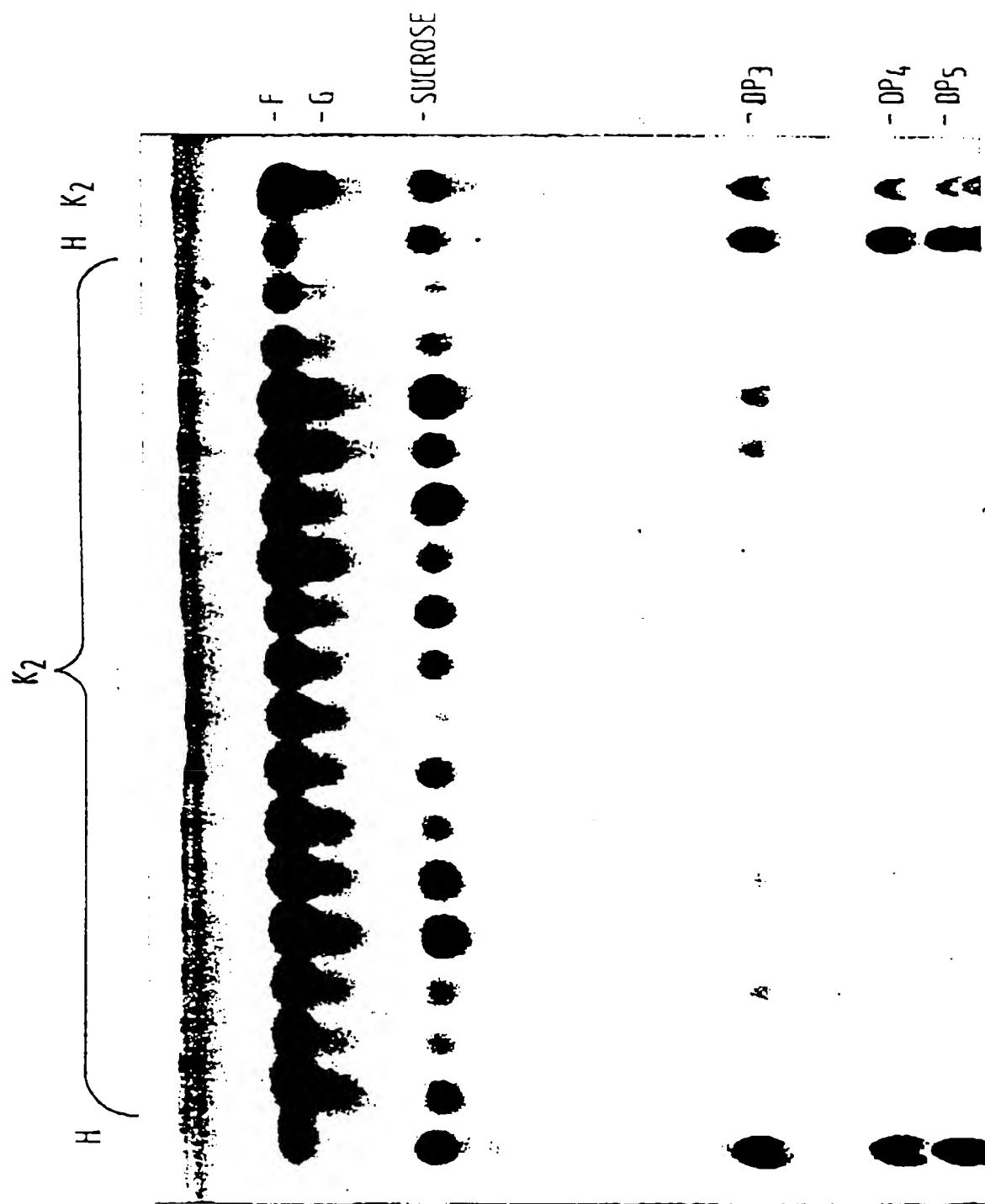


FIG. 2

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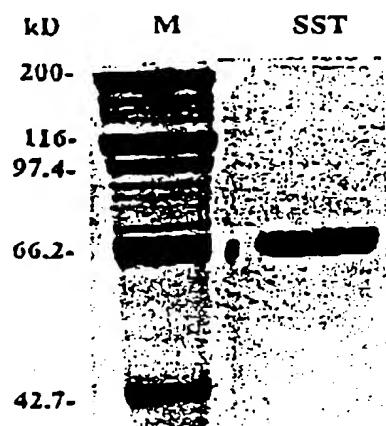


FIG. 3

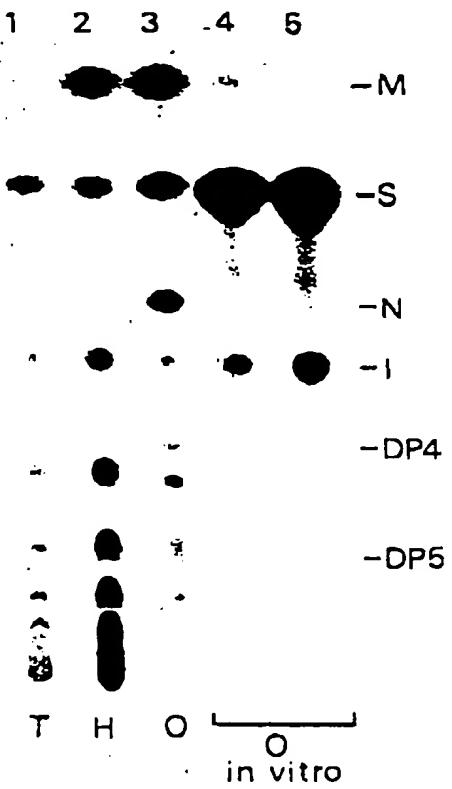


FIG. 4

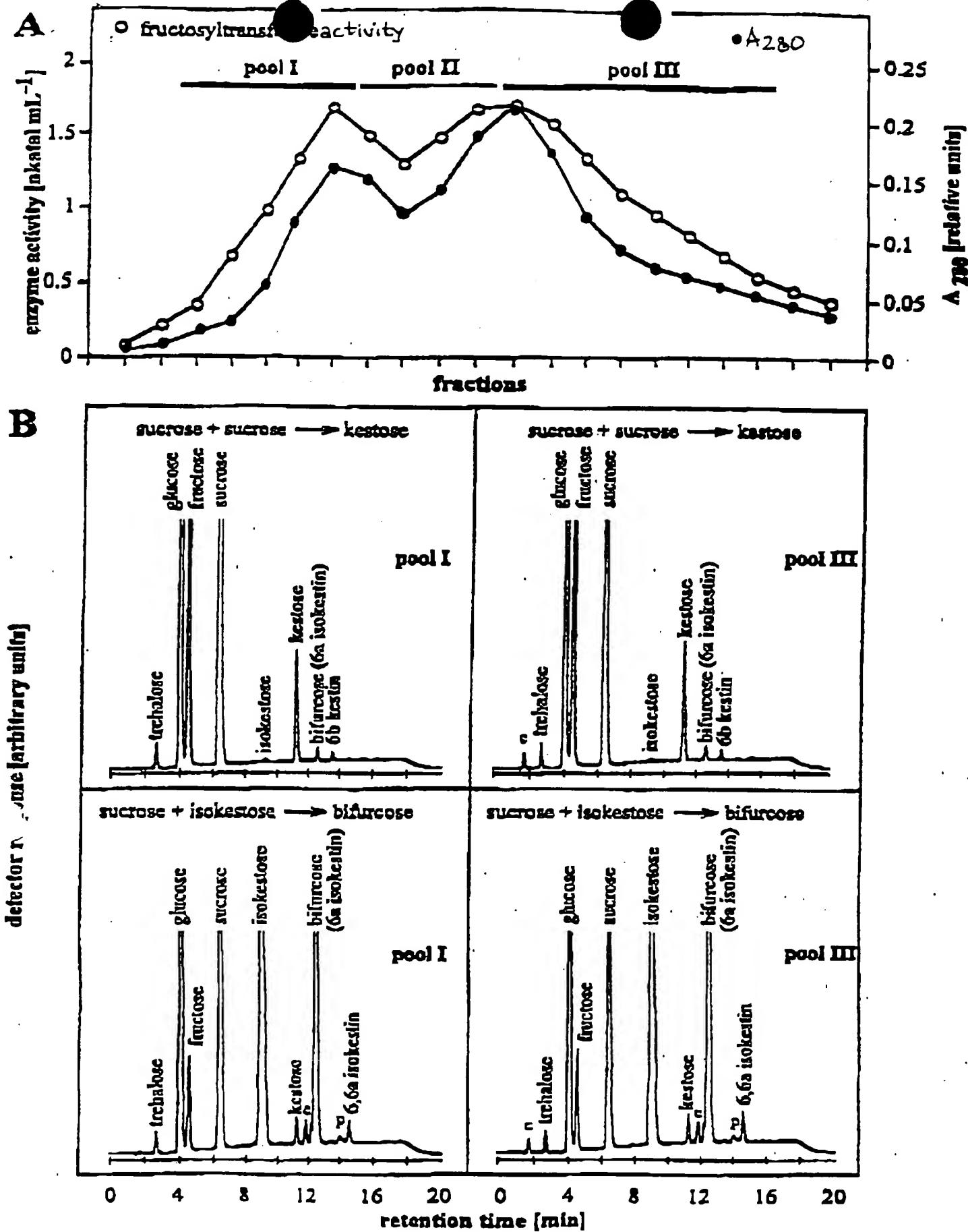


Fig. 5

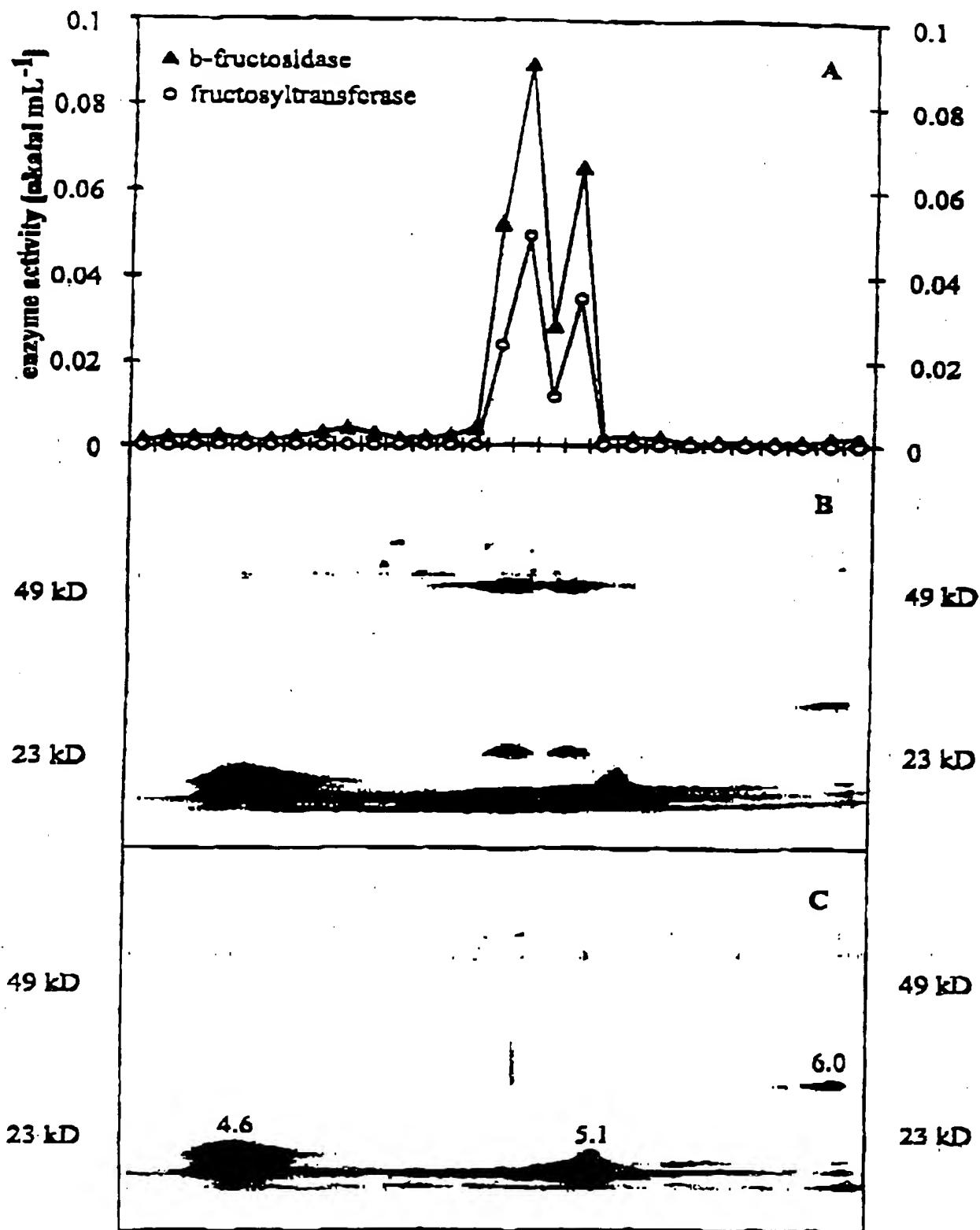


Fig. 6

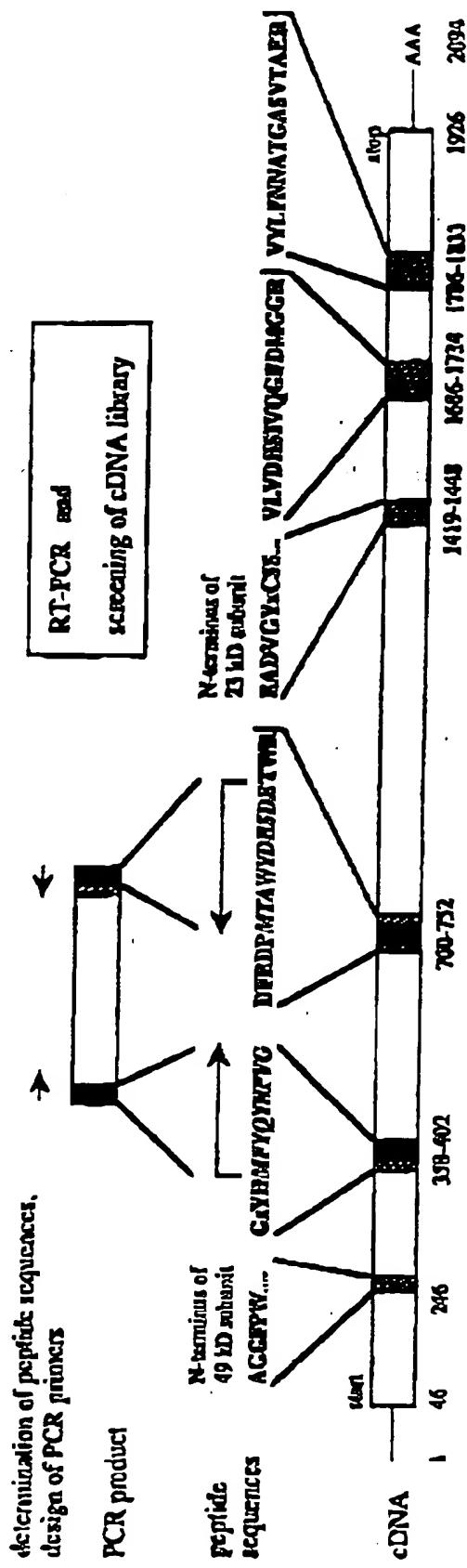


Fig. 7

Appendix

Sequence of cDNA encoding 6-SFT from barley

GCTCAGAATCTACCAAACCCCTCTCGGAGTTGACGAGCGGCCGCATGGGTACACGGC  
MetGlySerHisGly  
AAGCCACCGCTACCGTACGCCATAAGCCGTGCCCTCGAACGCCCGACGCTAACGGG  
LysProProLeuProTyrAlaTyrLysProLeuProSerAspAlaAlaAspGlyLysArg  
ACCGGCTGCATGAGGTGGTCCCGTGTGCCACCGCTGACGGCTCGGCCATGGCGGTG  
ThrGlyCysMetArgTrpSerAlaCysAlaThrValLeuThrAlaSerAlaMetAlaVal  
GTGGTGGTCCGCCACGCTCTGGCGGATTGAGGATGGACGAGGCCGTCGACCGAGGAG  
ValValValGlyAlaThrLeuLeuAlaGlyLeuArgMetGluGlnAlaValAspGluGlu  
GCGGGCGGGCGGGTCTCCGTGGACCAACGAGATCTGCACTGGCAGCGCAGCGGTAC  
AlaAlaAlaGlyGlyPheProTrpSerAsnGluMetLeuGlnTrpGlnArgSerGlyTyr  
CATTTCCAGACGGCCAAGAACTACATGAGCGATCCCACGGCTGATGTATTACCGTGGG  
HisPheGlnThrAlaLysAsnTyrMetSerAspProAsnGlyLeuMetTyrTyrArgGly  
TGGTACACATGTTCTACCAACTACAACCCGGTGGGACCGACTGGGACGGACGGCATGGAG  
TrpTyrHisMetPheTyrGlnTyrAsnProValGlyThrAspTrpAspAspGlyMetGlu  
TGGGGCCACGCCGTGTCCCGAACCTTGCCAATGGCGCACCCCTCCCTATGCCCATGGTG  
TrpGlyHisAlaValSerArgAsnLeuValGlnTrpArgThrLeuProIleAlaMetVal  
GCCGACCAGTGGTACCGACATCTCGGAGTCCCTCTCGGCTCCATGACGGTGTACCCAAC  
AlaAspGlnTrpTyrAspIleLeuGlyValLeuSerGlySerMetThrValLeuProAsn  
GGGACGGTCATCATGATCTACACGGGCGCCACCAACGCCCTCCGGTGGAGGTCCAGTGC  
GlyThrValIleMetIleTyrThrGlyAlaThrAsnAlaSerAlaValGluValGlnCys  
ATCGCCACCCCCGCCGACCCCAACGACCCCTCTCCGGCGGTGGACCAAGCACCCGCC  
IleAlaThrProAlaAspProAsnAspProLeuLeuArgArgTrpThrLysHisProAla  
AACCCCGTCATCTGGTGGCCGGGGTGGGACCAACGGATTTCGAGAGACCCGATQACC  
AsnProValIleTrpSerProProGlyValGlyThrLysAspPheArgAspProMetThr  
GCCTGGTACGAGACTCCGACGAGACATGGCGCACCCCTCTCGGGTCCAGGACGACAC  
AlaTrpTyrAspGluSerAspGluThrTrpArgThrLeuLeuGlySerLysAspAspHis  
GACGGCCACCAACGGCATGCCATGATGTACAAGACCAAGGACTTCCTCAACTACGAG  
AspGlyHisHisAspGlyIleAlaMetMetTyrLysThrLysAspPheLeuAsnTyrGlu  
CTCATCCCGGCATCTTGACCCGGGTGGTGGCGCACCCGGAGTGGGAGTGCATCGACTTC  
LeuIleProGlyIleLeuHisArgValValArgThrGlyGluTrpGluCysIleAspPhe  
TACCCCGTCGGCCGGAGAACGAGCAGCACAACGCTGGAGATGCTGGAGTGCACGTGTGAAAGCG  
TyrProValGlyArgArgSerSerAspAsnSerSerGluMetLeuHisValLeuLysAla  
AGCATGGACGACGAACGGCACGGACTACTACTCGCTGGGACGTACGACTCGCGGCCAAC  
SerMetAspAspGluArgHisAspTyrTyrSerLeuGlyThrTyrAspSerAlaAlaAsn  
ACGTGGACGCCATCGACCCGGAGCTGACTTGGGAGTCGGCTGAGATACGACTGGGGA  
ThrTrpThrProIleAspProGluLeuAspLeuGlyIleGlyLeuArgTyrAspTrpGly  
  
AAGTTTTATGCGTCCACCTCTTCTATGATCCGGCCAAGAACGGCGCTGCTCATGGGG  
LysPheTyrAlaSerThrSerPheTyrAspProAlaLysAsnArgArgValLeuMetGly  
TACGTGGCGAGGTGACTCCAAGCGGGCTGATGTCGTCAGGATGGGCTCCATTCAAG  
TyrValGlyGluValAspSerLysAsnAlaAspValValLysGlyTrpAlaSerIleGln  
TCAGTTCTAGGACGGTGGCTCTGGATGAGAAGACCCGGACGAAACCTCCTGCTCTGGCC  
SerValProArgThrValAlaLeuAspGluLysThrArgThrAsnLeuLeuLeuTrpPro  
GTTGAGGAGATCGAGACCCCTCCGCTCAATGCCACCGAACGACTGACCGACGTTACCATTAAC

Fig. 8

ValGluGluIleGluThrLeuArgLeuAsnAlaThrGluLeuThrAspValThrIleAsn  
 ACTGGCTCCGTATCCATATCCCCTCCGCCAAGGCACTCACCGTCGACATGCGGAGGCC  
 ThrGlySerValIleHisIleProLeuArgGlnGlyThrHisAlaArgHisAlaGluAla  
 TCTTTCACCTTGATGCTTCCGCGTAGCTACCCCTAACGAAAGCCGATGTGGCTACAAAC  
 SerPheHisLeuAspAlaSerAlaValAlaAlaLeuAspGluAlaAspValGlyTyrAsn  
 TGCAGTAGCAGCCGCGCGACTGTTAACCGCGCCGCGCTAGGCCCCCTCGGCCTCGTC  
 CysSerSerSerGlyAlaAlaAlaAlaAlaLeuAspGluAlaAspValGlyTyrAsn  
 CTCGCCCCGGGTGACCGCCGACGGCTACTCTACGTGTCTAGGCC  
 LeuAlaAlaGlyAspArgArgGlyGluGlnThrAlaValTyrPheTyrValSerArgGly  
 CTTGACGGAGGCTCCACACCAGCTCTGCCAAGATGAGCTGAGATCGTCACGGCCAAG  
 LeuAspGlyGlyLeuHisThrSerPheCysGlnAspGluLeuArgSerSerArgAlaLys  
 GATGTGACCAAGCGTGTCACTGGGAGCACGGTGCCTCGACGGTGAAGGCTTTGCA  
 AspValThrLysArgValIleGlySerThrValProValLeuAspGlyGluAlaAlaSer  
 ATGAGGGTGTCTGGATCATCCATCGTCAGGGCTTCGACATGGCGGGAGGACCAAG  
 MetArgValLeuValAspHisSerIleValGlnGlyPheAspMetGlyGlyArgThrThr  
 ATGACCTCGCGGTGTACCCGATGGAGTCGTATCAGGAGGCAAGAGTCTACTTGTCAAC  
 MetThrSerArgValTyrProMetGluSerTyrGlnGluAlaArgValTyrLeuPheAsn  
 AACGCCACCGGTGCCAGCGTACGGCGAAAGGCTGGTGTGCAAGGAGATGGACTCGGCA  
 AsnAlaThrGlyAlaSerValThrAlaGluArgLeuValValHisGluMetAspSerAla  
 CACAACCGCTCTCAAATGAGGACGATGGCATGTATCTCATCAAGTTCTGAATCTCGT  
 HisAsnGlnLeuSerAsnGlnAspAspGlyMetTyrLeuHisGlnValLeuGluSerArg  
 CATTAATAAGCTACATTGGATCAAAGAAGATCACCAAGGGAAAGGCAATTCATACATAAT  
 His  
 CGAATCATTCTGCACAACCTCGCTTGCAGCATGCATTGAAACATCTGTATTTGGATCATC  
 TTCTTCATTTATGTCATAGTGAACATATTACTTTGAAAAAAAAAAAAA

9  
Fig

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Fig. 10

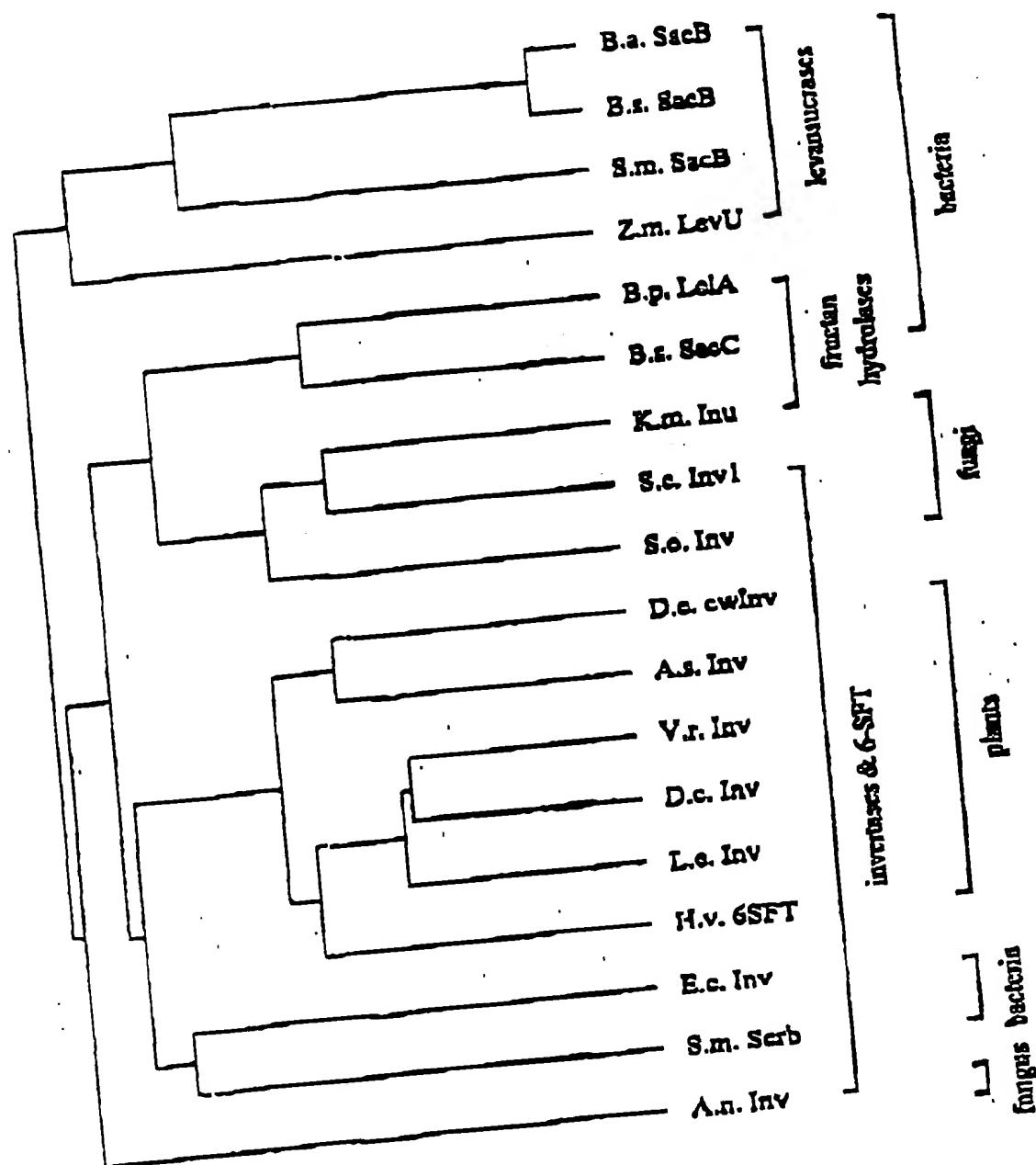
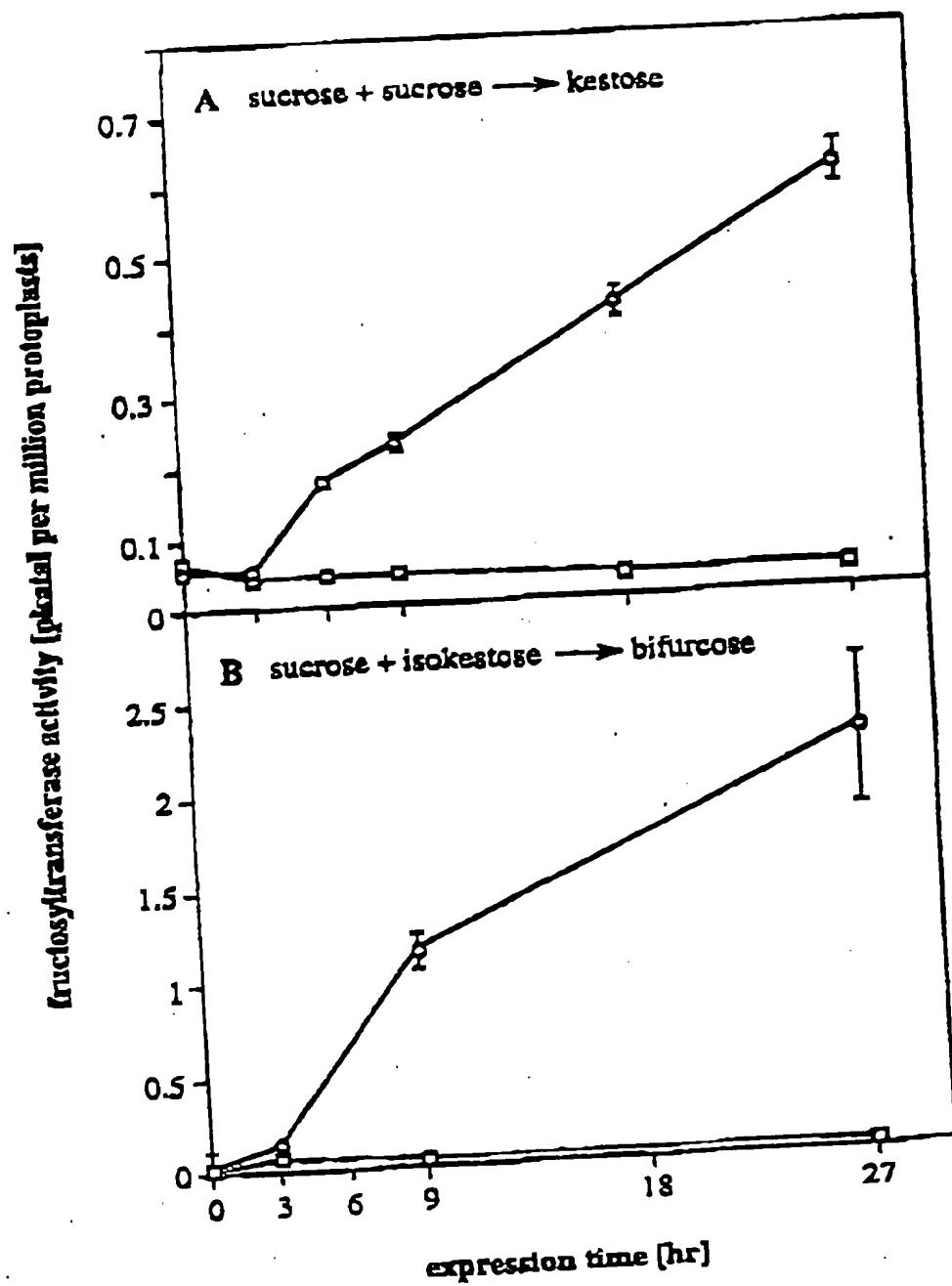


Fig. 11



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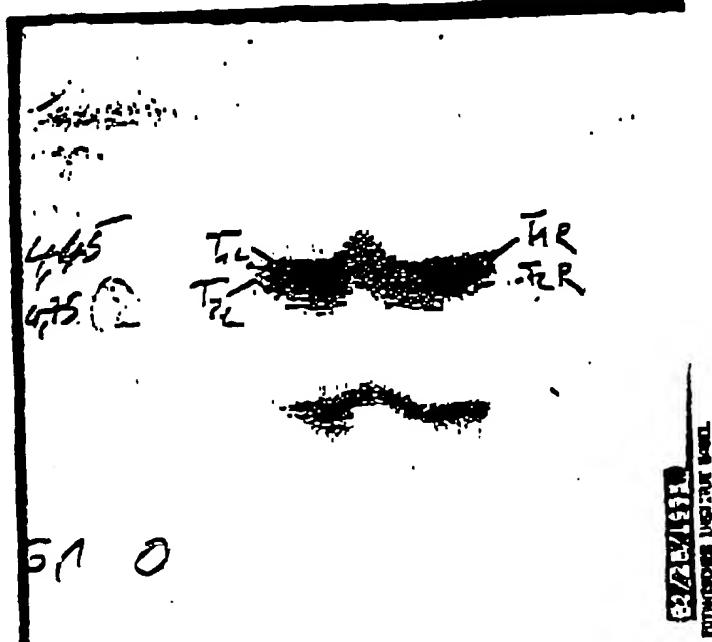


Fig. 12

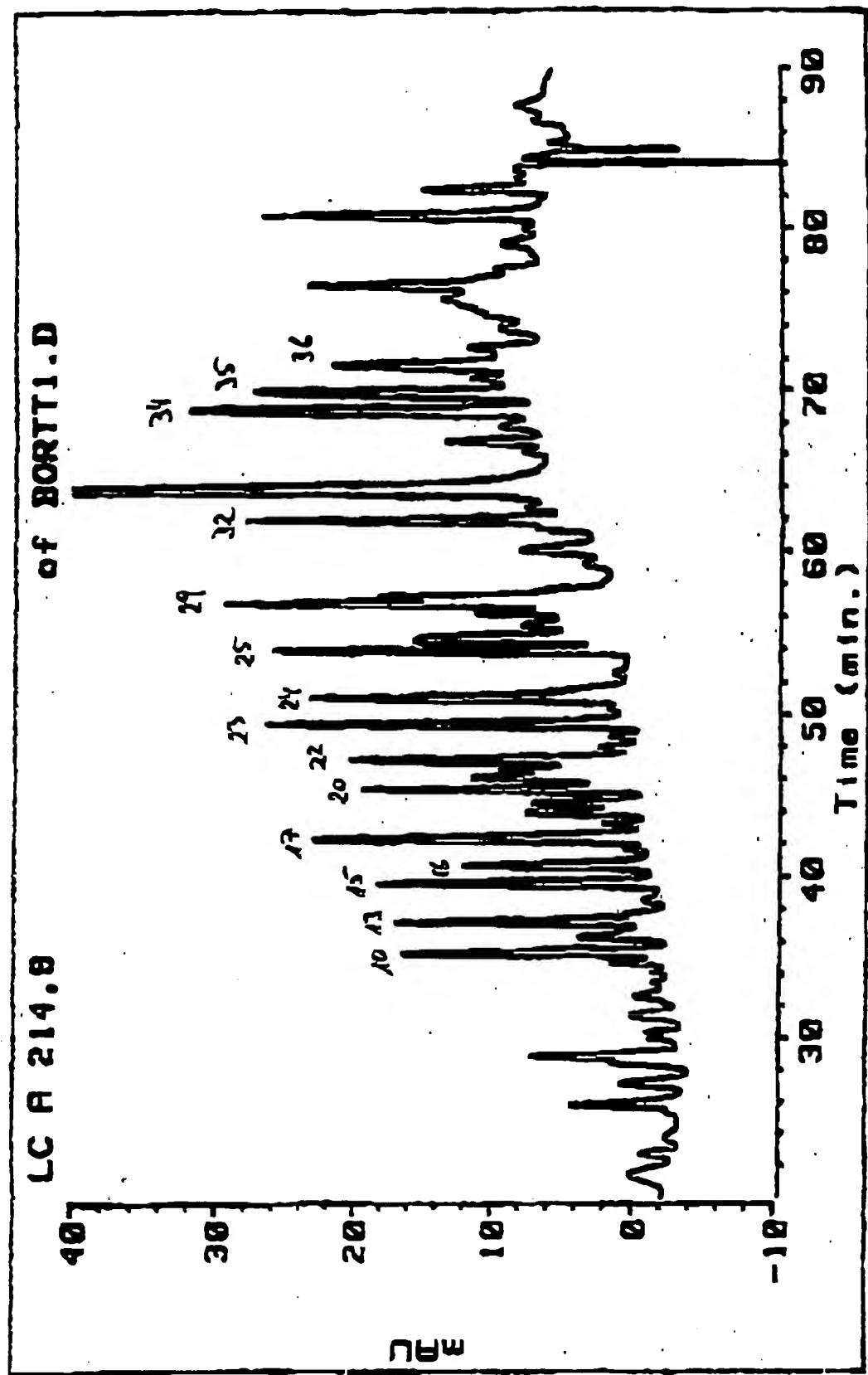


Fig. 13

25.2 45. Morikawa

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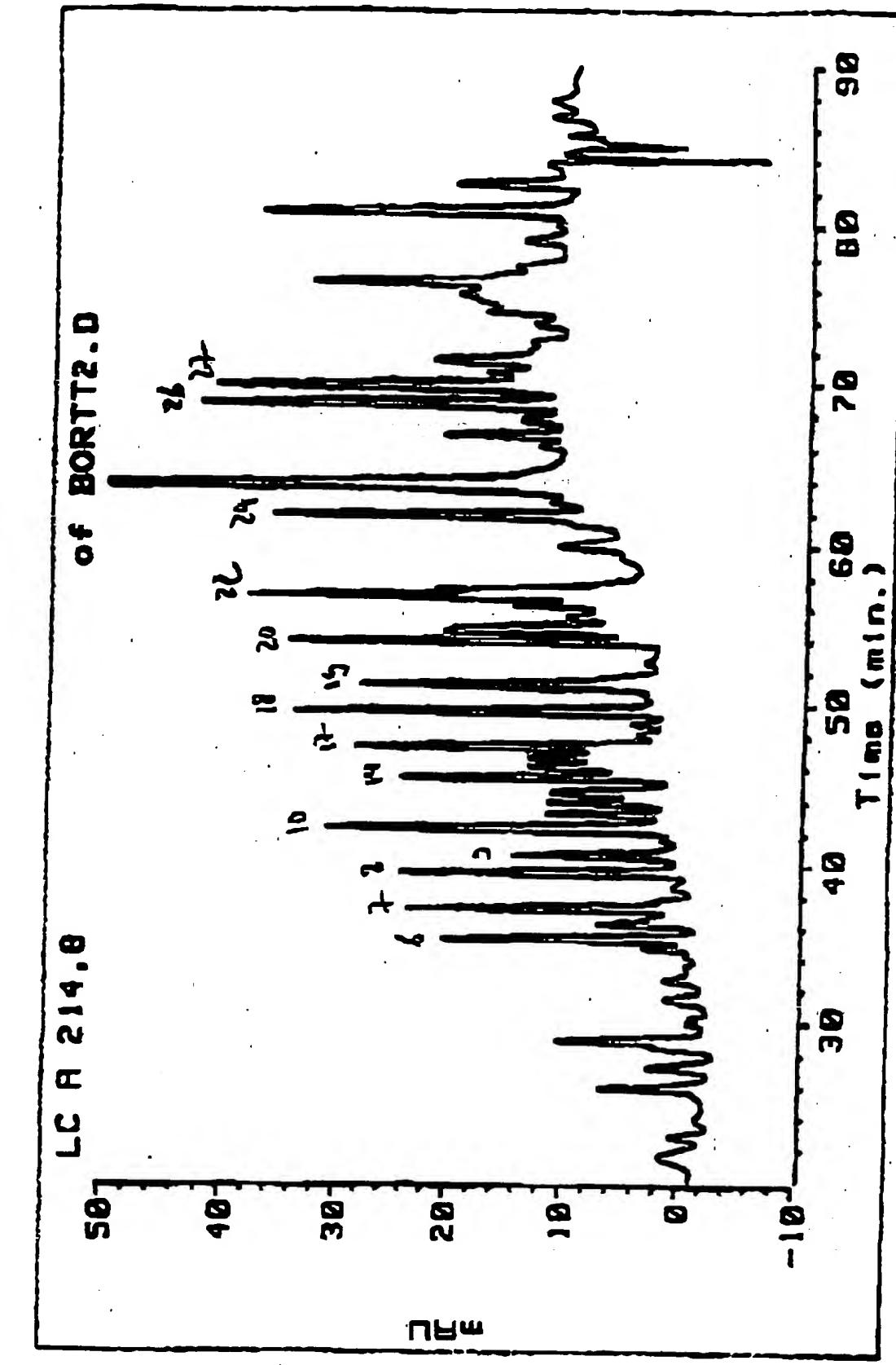


Fig. 14

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